

Fig. 1

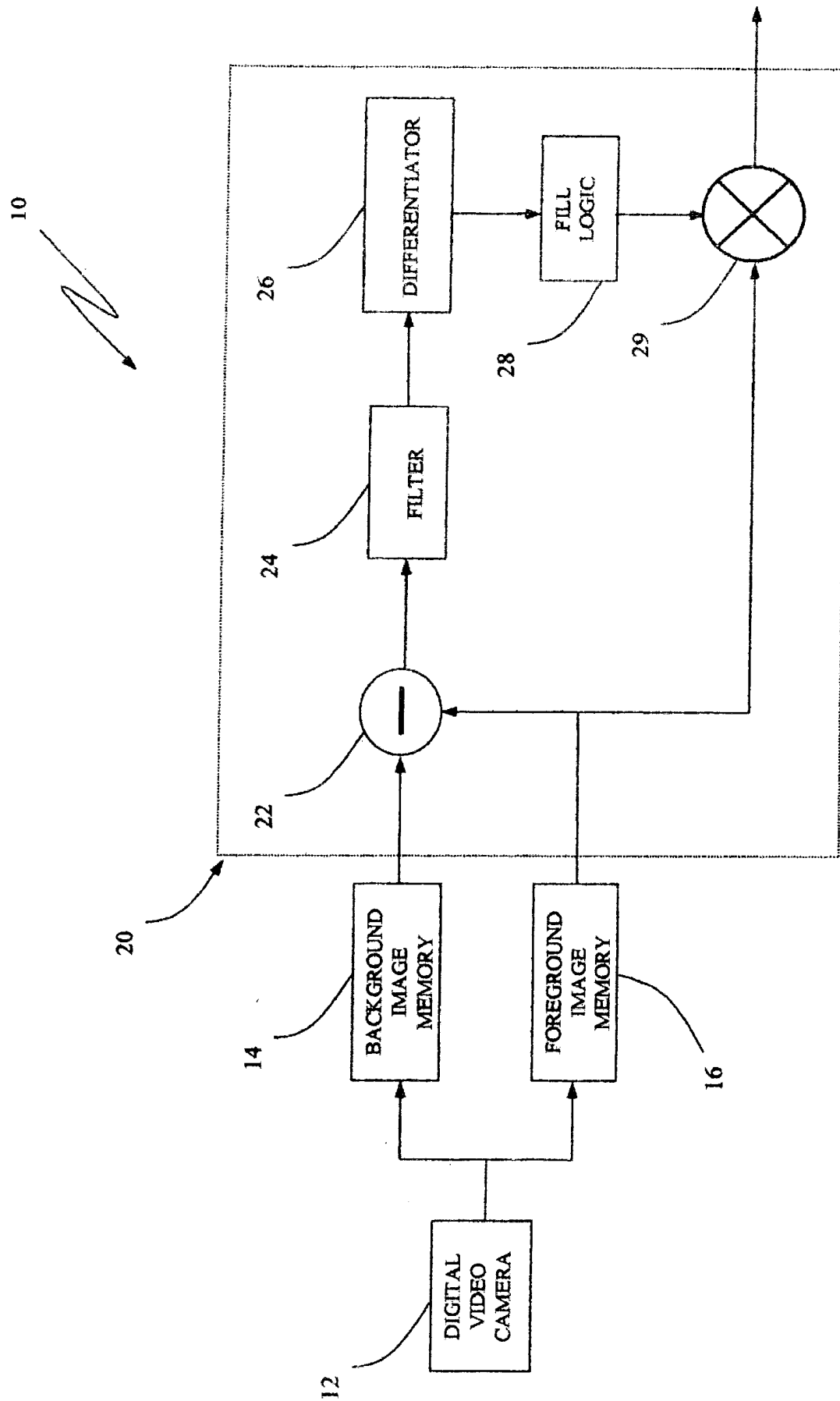


Fig. 2

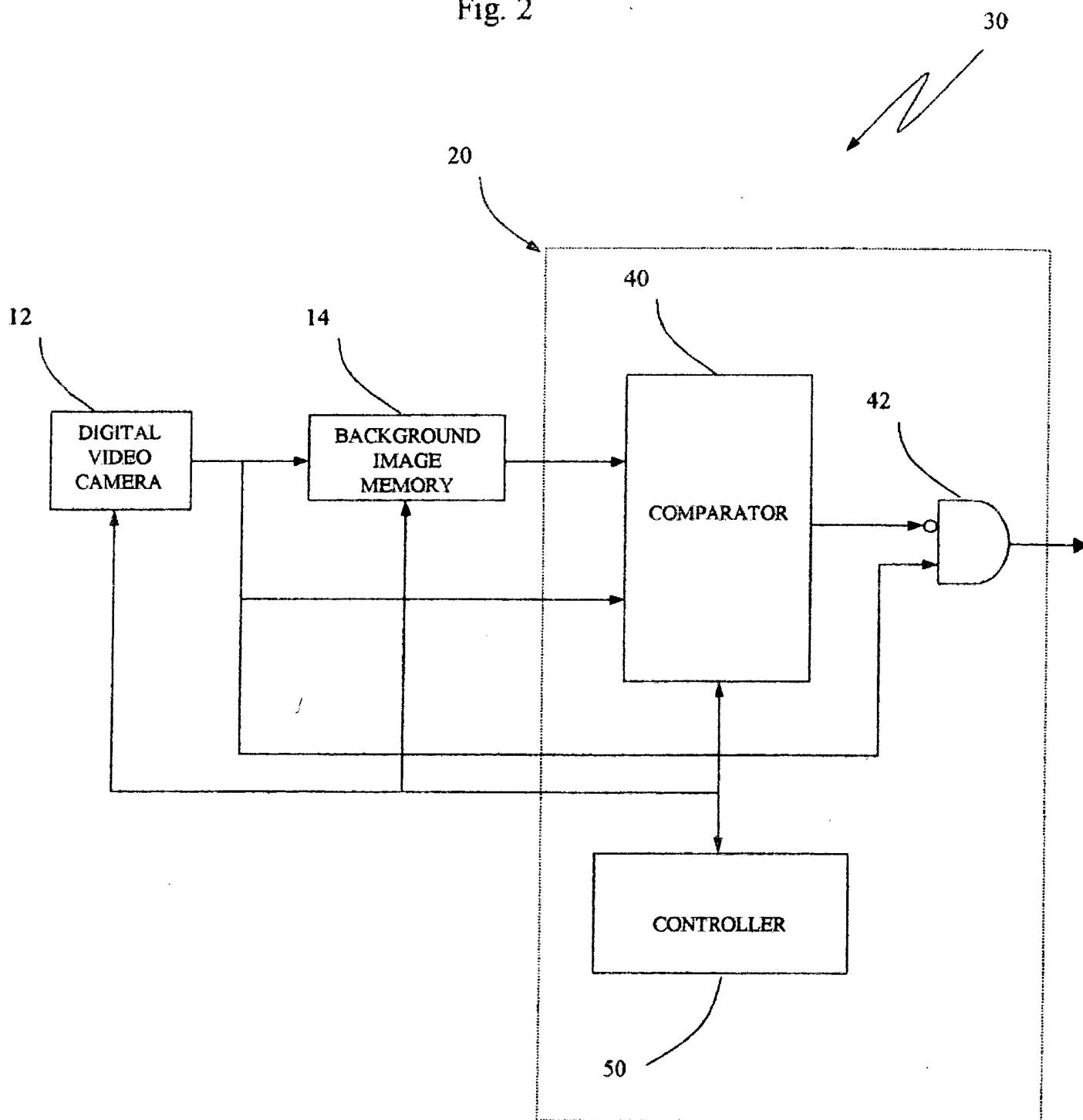


FIG. 3 is a block diagram of a system for providing a virtual environment to a user. The system includes a digital video camera 12, a background image memory 14, an image processor 20, an image memory 16, a virtual environment controller 218, an intuitive mode controller 220, a communication controller 222, and a transceiver 224. The digital video camera 12 is connected to the background image memory 14, which is connected to the image processor 20. The image processor 20 is connected to the image memory 16, which is connected to the virtual environment controller 218. The virtual environment controller 218 is connected to the intuitive mode controller 220, which is connected to the communication controller 222, which is connected to the transceiver 224. The system also includes a display 240, a virtual interface 238, a virtual environment controller 232, an intuitive mode controller 230, a communication controller 228, and a transceiver 226. The display 240 is connected to the virtual interface 238, which is connected to the virtual environment controller 232. The virtual environment controller 232 is connected to the intuitive mode controller 230, which is connected to the communication controller 228, which is connected to the transceiver 226. The system further includes a tool detection processing block 234 and an application selector block 236. The virtual environment controller 232 is connected to the tool detection processing block 234, which is connected to the application selector block 236.

Fig. 3

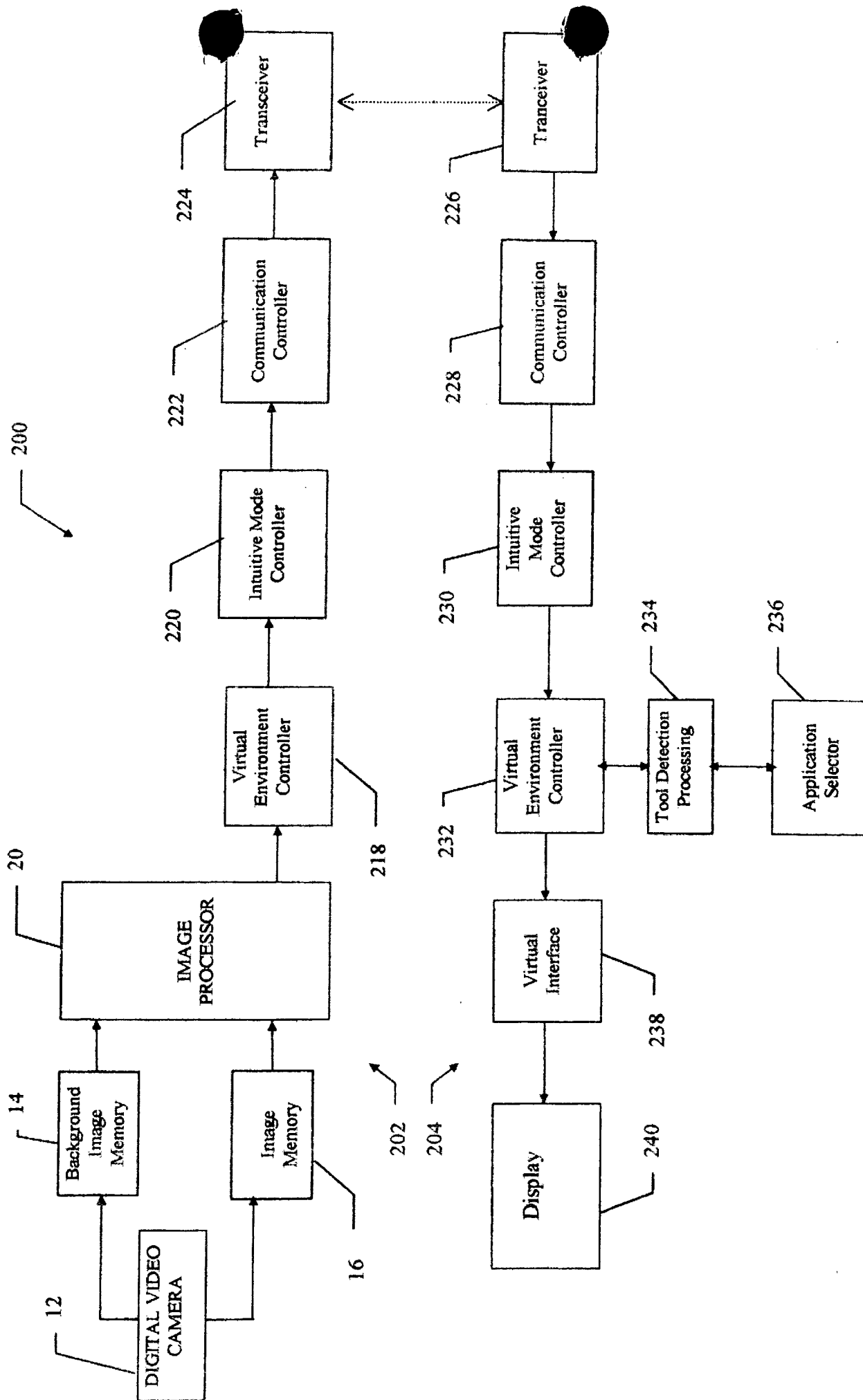
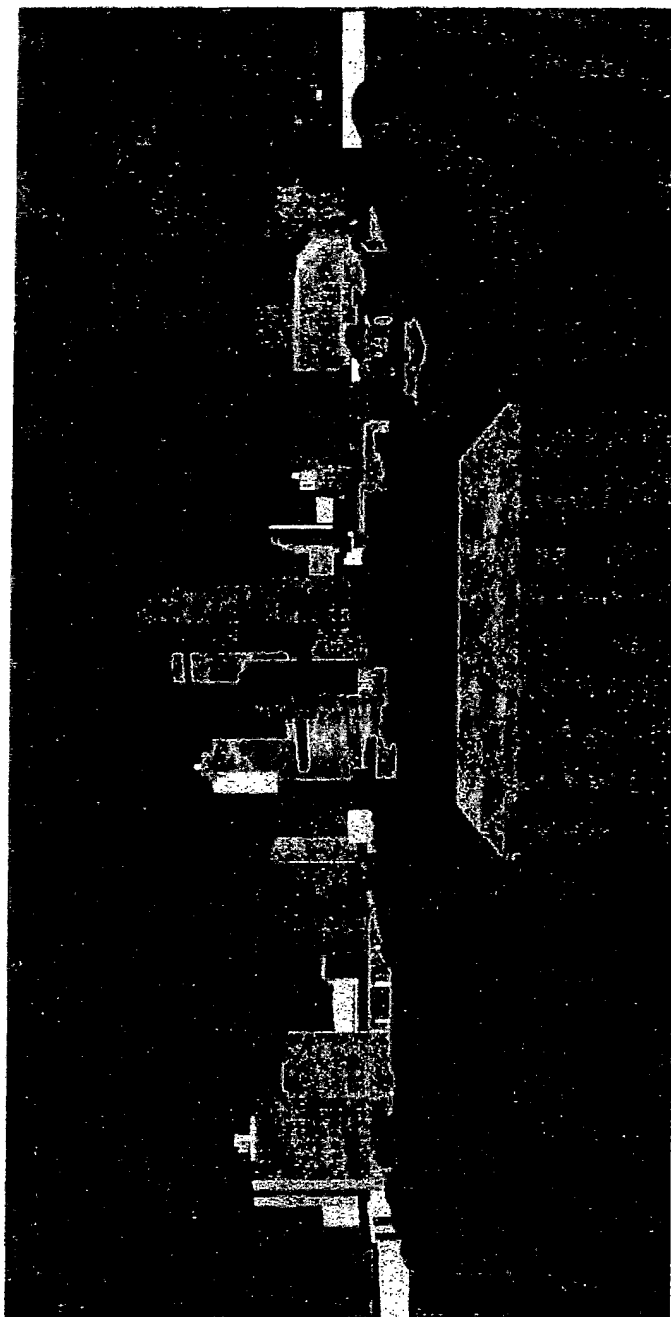


Fig. 4



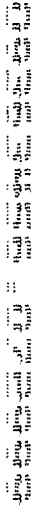


Fig. 5

Fig. 6a

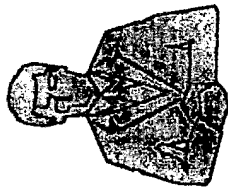


Fig. 6b

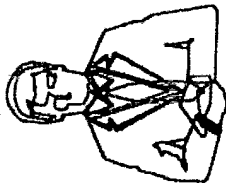


Fig. 6c

